

Title (en)

METHOD AND SYSTEM FOR GRATING TAPS FOR MONITORING A DWDM TRANSMITTER ARRAY INTEGRATED ON A PLC PLATFORM

Title (de)

VERFAHREN UND SYSTEM FÜR GITTERABGRIFFE ZUR ÜBERWACHUNG EINES AUF EINER PLC-PLATTFORM INTEGRIERTEN DWDM-SENDERARRAYS

Title (fr)

PROCÉDÉ ET SYSTÈME DESTINÉS À DES POINTS DE PRISE DE RÉSEAU, VISANT À SURVEILLER UNE ANTENNE RÉSEAU ÉMETTRICE DWDM INTÉGRÉE À UNE PLATEFORME DE CIRCUIT D'ONDES LUMINEUSES PLANES (PLC)

Publication

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Application

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Priority

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- US 85886807 A 20070920

Abstract (en)

[origin: US8050525B2] An integrated DWDM transmitter apparatus includes a silica-on-silicon substrate which includes a silica layer and a silicon layer. A plurality of input waveguides and a plurality of gratings are provided within the silica layer. Each of the plurality of gratings is coupled to a corresponding one of the input waveguides. An arrayed waveguide grating within the silica layer is coupled to the plurality of input waveguides, and at least an output waveguide within the silica layer are coupled to the arrayed waveguide grating. The transmitter also includes a plurality of lasers disposed in a recessed region of the silica-on-silicon substrate, and each of the lasers is optically coupled to a corresponding one of the plurality of input waveguides. The integrated transmitter also includes plurality of photodiodes, each of the plurality of photodiodes overlying a corresponding one of the plurality of grating.

IPC 8 full level

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